

RECEIVED  
JUN 17 2014

**GENERAL PERMIT REISSUANCE TRACKING SHEET**

Facility Name: Vulcan Construction Materials - Royal Stone Quarry County: Goochland

Owner: Vulcan Construction Materials LP Permit #: VAG84 0118

Permit Writer: OBK/BRK

	<u>Date</u>
Registration Statement Received (UPDATE CEDS)	3/25/14
Additional Information Requested	
Additional Information Received	
Fee Deposit Received	3/27/14
Registration Statement Considered Complete	3/25/14
Registration Statement to TMDL staff	6/5/14
All Applicable Information entered into CEDS	6/16/14
Application Information Added to General Permit Tracking Spreadsheet	6/16/14

**Concurrences**

Signature	<u>O. Carter</u>		<u>H. Adamson</u>		
Date	<u>6/16/14</u>		<u>6/30/14</u>		

**MEMORANDUM**

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**VALLEY REGIONAL OFFICE**

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT: Registration Statement Errata for VPDES Permit Nos. VAG840113, VAG840114, ~~VAG840118~~, VAG840120, VAG840126, VAG840134, ~~VAG840135~~, VAG840137, VAG840152, VAG840156, VAG840162

TO: GP File

FROM: Olive Critzer

DATE: March 25, 2014

The following deficiencies were noted in the subject general permit registration statements:

All the facility names are to be prefaced with Vulcan Construction Materials

The above deficiency in the registration statement is considered to be insignificant in that it will not affect the reissuance of the general permit.



RECEIVED  
DEQ - Valley  
MAR 25 2014

To: \_\_\_\_\_

FILE: \_\_\_\_\_

Ms. Olive B. Critzer  
Valley Regional Office  
Department of Environmental Quality  
PO Box 3000  
Harrisonburg, VA 22801

March 17, 2014

RE: Reissuance of Nonmetallic Mineral Mining General Permit No. VAG840118  
Vulcan Construction Materials Company – Royal Stone Quarry – Gouchland County

Dear Ms. Critzer,

Enclosed, please find the General Permit Registration form and appropriate attachments for the above referenced facility.

We propose no changes to the existing permitted facilities and desire only to obtain a reissuance on the General Permit. Please provide DMR forms for the process water outfall 001, and the representative stormwater outfall 003, described in the enclosures. Note that while no changes were made to the representative outfalls, outfall 002 has been removed from the facility. It should be noted that all process water outfalls do not include discharges from vehicle washing activities or oil water separator discharges; therefore, petroleum hydrocarbon sampling should not be included on the DMR form for each process water outfall.

Thank you for your kind assistance in this matter. If you have any questions and/or comments, please contact Brian Parker of Cardno MM&A at (804) 441-8388 or myself at (804) 717-8374.

Sincerely,

*Walter C. Beck III*

Walter Beck  
Environmental Engineer

Enclosures

**VPDES GENERAL PERMIT REGISTRATION STATEMENT  
NONMETALLIC MINERAL MINING**

1. Facility Owner: Vulcan Construction Materials, LP C/O Walter Beck
2. Owner Mailing address: Street or P.O. Box 5601 Iron Bridge Parkway, Suite 201  
City or Town Chester State Virginia Zip Code 23831
3. Owner Telephone #: (804) 717-5770 4. Owner Email: BeckW@VMCMAIL.com
5. Contact Name: Walter Beck 6. Contact Telephone #: (804) 717-8374
7. Contact Email: BeckW@VMCMAIL.com
8. Facility Name: Royal Stone Quarry 9. Facility Lat/Long (deg-min-sec): 37-41-43 / 77-38-21
10. Facility Address: 4060 Quarry Hill Lane, Rockville, VA 23146  
(County, Street Number, City or Town, State, Zip)
11. Description of mining activity (mineral mined): Extraction of granite and production of crushed stone products for the construction industry.
12. Primary SIC code: 1423 Secondary SIC codes: \_\_\_\_\_
13. Does this mine currently have a VPDES permit? Yes ☒ No ☐ (If yes, give permit number) VAG840118

14. Discharge Information: PLEASE SEE ATTACHED OUTFALL DESCRIPTIONS

OUTFALL NUMBER	OUTFALL TYPE (see note 1)	SOURCE OF DISCHARGE (see note 2)	RECEIVING STREAM AND WETLANDS	LATITUDE/ LONGITUDE (deg-min-sec)

Notes:

1. Outfall Type - list as (1) process wastewater, (2) storm water, or (3) process water commingled with storm water.
2. Source of Discharge (If the outfall has a combination of these sources, list all that apply): (1) mine pit dewatering, (2) storm water associated with industrial activity, (3) storm water not associated with industrial activity, (4) ground water infiltration, (5) wastewater from vehicle or equipment degreasing activities, (6) vehicle washing, (7) mined material washing, (8) return water from operations where mined material is dredged, (9) noncontact cooling water, (10) miscellaneous plant cleanup wastewater, (11) co-located facility discharges (identify the co-located facility), (12) emergency outfall for process water systems designed as "no discharge" or (13) other discharges not listed here (describe).

15. Is the process water system designed to operate as "no discharge?" Yes ☐ No ☒ (see instructions).
16. Storm Water:
- a. Indicate which exclusively storm water outfalls (if any) will be representative outfalls that require a single Discharge Monitoring Report (DMR). SEE ATTACHED OUTFALL LIST FOR REPRESENTATIVE OUTFALLS
- b. For storm water outfalls which are to be represented by other outfall discharges, attach a description of the activities associated with those outfalls and explain why they are substantially the same as the representative outfall to be sampled.
- c. Does the storm water discharge from a storm water management structure (a series of large settling sedimentation basins). Yes ☒ No ☐
- d. Storm water pollution prevention plans (SWPPPs) do not need to be submitted with this registration. However, see requirements for development, updating and implementation in instructions below.

17. If the facility discharges to the Chickahominy watershed above Walkers Dam, provide monitoring data to demonstrate compliance with 9VAC25-260-310 m (Chickahominy special standards) as per Part I B 14 of the 2014 VPDES Nonmetallic Mineral Mining General Permit (if not already submitted to the Department under a different VPDES permit in a DMR).

18. Description of wastewater treatment or reuse/recycle systems, or both:

Solids settling in the pit and/or sedimentation basins prior to discharge

19. List any chemicals added to water that could be discharged:

Callaway (4310, 4325, 4330, 4345, 4848, 4880, 3455L, 3477, 3458, 6280), Jayfloc 3475, Rockfloc (3742R, 3746R, 3719R), RockDust (100, 3330), Paschal PFR (C453, F444, F485, C258, P255, D252, D253), Sodium Hydroxide, Hydrated Lime, Sulfuric Acid (20% Baume), Hydrochloric Acid

20. Indicate any co-located facilities:

21. Is this facility a hazardous waste treatment, storage, or disposal facility? Yes ☐ No ☒

22. Attach to this registration statement a schematic drawing showing the sources of water used for production, the industrial operations contributing to or using water, and the conceptual design of the methods of treatment and disposal of wastewater and solids. Identify outfall numbers listed in item 14 above.

23. Attach to this registration statement an aerial photo or scale map which clearly shows the property boundaries, plant site, drainage areas associated with each outfall, locations of all mine pit dewatering, existing, significant sources of materials exposed to precipitation, storm water management structures (if any), storm water or process wastewater outfalls listed in item 14 above and the receiving streams.

24. Attach to this registration statement evidence that the operation to be covered by this general permit has a mining permit which has been approved by the Virginia Department of Mines, Minerals and Energy, Division of Mineral Mining (or associated waived program) under the provisions and requirements of Title 45.1 of the Code of Virginia. Mineral mines owned and operated by governmental bodies not subject to the provisions and requirements of Title 45.1 of the Code of Virginia are exempt from this requirement.

Mining Permit No.: 05641AB

25. Does the facility discharge storm water into a Municipal Separate Storm Sewer System (MS4)? Yes ☐ No ☒

If yes, provide name of the MS4 operator \_\_\_\_\_

26. Would you like your permit sent to you electronically? Yes ☐ No ☒

If yes, please list the email address to send it to: Prefer hard copy; If possible, also email to BeckW@VMCMAIL.com

**Certification:**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Signature: \_\_\_\_\_

*Walter C. Beck III*

Date: 3/17/2014

Print Name Walter C. Beck III

Title: Environmental Engineering

**Required attachments:**

1. Evidence of approved mining permit
2. Water use schematic drawing
3. Aerial photo or map

**FOR DEPARTMENT USE ONLY:**

Accepted/Not Accepted by: Brod Ricks

Date: 6/26/14

Basin James River

Stream Class III

Section 9A

Special Standards PWS, 0

TMDL Compliance Yes

## SECTION 5.0 DISCHARGE SAMPLING AND ANALYSIS

The General Permit requires sampling and analysis of point source discharges that fall in the following categories.

Mine dewatering and/or discharges of process wastewater, including commingled stormwater.

Stormwater discharges from other plant areas where the stormwater has contacted areas directly related to manufacturing, processing, or raw materials storage.

### 5.1 Process Water and Stormwater Sampling/Analysis Program

Refer to Table 1 for required sample frequency and analytical parameters. There are two appropriate sampling location at the Royal Stone Quarry which will be used to sample various process water and stormwater discharges. Each outfall to be sampled is listed below along with a brief description of each outfall's type of discharge.

#### Representative Outfalls to be Sampled:

Outfall No.	Latitude / Longitude	Receiving Stream	Outfall Type	Source of Discharge
304-001	37° 41' 43" / 77° 38' 21"	Tributary of Tuckahoe Creek	Commingled Process Water and Stormwater	Mine pit dewatering
304-003	37° 41' 29" / 77° 38' 34"	Tuckahoe Creek	Stormwater	Stormwater associated with industrial activity. This sample location is representative of all discharges from yard, roadway and material stockpile areas.

*Note: There are a total of two discharge points (1 Stormwater, 1 process water) at the Royal Stone Quarry site.*

*Mine dewatering flows are pumped to the creek at outfall 304-001*

*Outfall 304-002 no longer exists as drainage from the entry drop inlet is now diverted towards the pit*

*Outfall 304-003 is the discharge point for runoff from material stockpile areas and yard areas which did not drain to the pit. Outfall 304-003 is currently the appropriate sampling point for this type of stormwater discharge.*

The following table summarizes the total additional outfalls at this site which will not require sampling. The abovementioned outfalls that will be sampled have been linked to the following outfalls based on the overall type of discharge each additional outfall will represent. All outfall locations are indicated on the partial mine map in Appendix I.

#### Remaining Outfalls (not to be sampled):

Outfall No.	Latitude / Longitude	Receiving Stream	Outfall Type	Source of Discharge	Corresponding Representative Outfall*

\*Listed representative outfall is the appropriate sample point designated for that type of discharge; no grab sample needs to be taken for these additional listed outfalls.

## PERMIT/LICENSE TO OPERATE A MINE

Permit/License No. 05641AB

Was issued to VULCAN CONSTRUCTION MATERIALS LP - ROYAL STON  
Whose main office is located at (MIDEAST DIVISION)  
RICHMOND, VA 23242

For type of mineral(s) GRANITE  
Mine Type QUARRY Exemption Type N/A  
Located at NORTHWEST OF RICHMOND ON RT 721  
County of GOOCHLAND

THIS PERMIT IS ISSUED PURSUANT TO CHAPTER 14.1 AND 16, TITLE 45.1, CODE OF VIRGINIA(1950), AS AMENDED Being an Act to require permits/licenses for certain mining operations and to fix conditions for issuance thereof; to provide that certain safety and reclamation practices be performed by mine operators and for inspection thereof; and to advise on satisfactory compliance; to require an annual report on progress of reclamation and tonnage of mineral mined; to provide for the Director to seek injunctive relief; to provide for a Board of Surface Mining Review, a Board of Mineral Mine Examiners, and to provide for appeals from rulings, violations and decisions of the Department or associated Boards.

Issued MAY 23 2000  
Covering 217.03 ACRES.  
Receipt number 19915

**THIS PERMIT/LICENSE MUST BE POSTED NEAR THE MINE OFFICE**

MINE OFFICE COPY

PIT  
SUMP

PIT DISCHARGE  
134,000 G.P.D.

OUTFALL  
304-001

INTERMITTENT FLOW

OFFICE

PLANT  
AREA

WASH  
TOWER

270,000  
G.P.D.

MAKE-UP WATER

#1

#2

DRAWING NOT TO SCALE

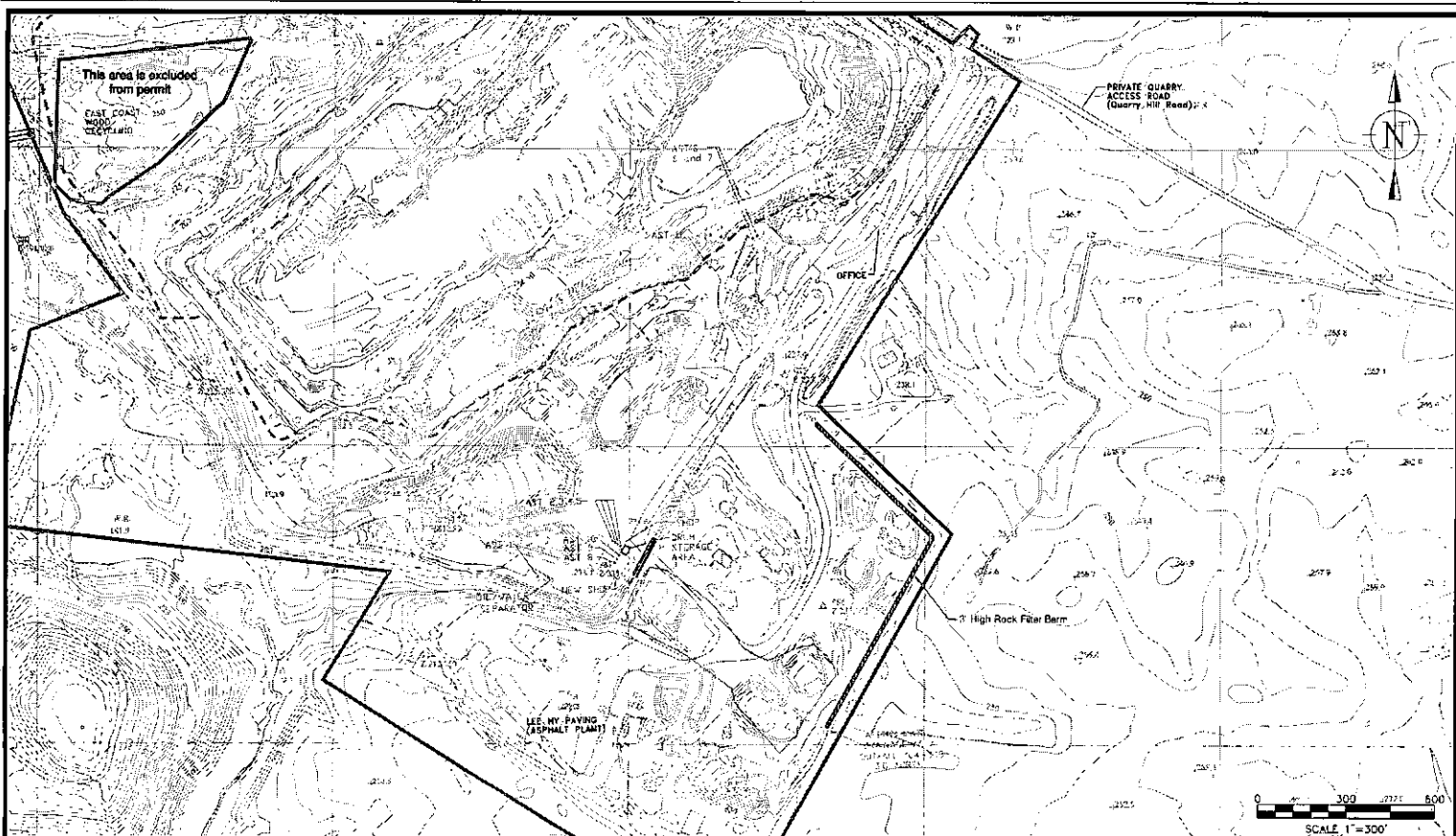
Prepared by:



WATER FLOW SCHEMATIC  
ROYAL STONE QUARRY  
ROCKVILLE, VA  
DECEMBER 2008

**Vulcan**  
Materials Company





SHEET  
1 OF 1



BMP/SPPP - OUTFALL LOCATION MAP  
ROYAL STONE QUARRY  
ROCKVILLE, VIRGINIA

DATE: 3/12/2014  
SCALE: 1"=300'  
DESIGNED: BMP  
DRAWN: BMP  
PROJECT: PR374-02

**Vulcan**  
Construction Materials

SUBJECT: Reissuance of VPDES Permit No.VAG840118, Vulcan Construction Materials LP-Royal Stone Quarry

TO: Jennifer Palmore

FROM: Olive Critzer *Olive*

DATE: June 12, 2014 June 5, 2014

Receiving Stream: Little Tuckahoe Creek UT  
 Waterbody ID: VAV-H39R  
 Latitude/Longitude: 37 41 43N / 77 38 21W  
 Location: 4060 Quarry Hill Lane, Rockville

Based on the outfall location identified on the attached topographic map and based on the information above, please provide me with the following:

- Does the facility discharge to an impaired water or to an unnamed, unimpaired tributary of an impaired water for which a TMDL waste load allocation has not been established by the board and approved by EPA? N

If Yes, give the name of the impaired water: \_\_\_\_\_;

Impairment	Pollutant causing the impairment
	Y / N
	Y / N

- Does any approved TMDL impose limits on discharges from this facility? Y

If Yes:

TMDL Pollutant	Does the facility discharge the TMDL pollutant?
Chesapeake Bay TMDL – TN, TP, and TSS	Y
Tuckahoe Creek Bacterial TMDL – E. coli – not addressed	N
James River and Tributaries – City of Richmond Bacterial TMDL – E. coli – not addressed	N
	Y / N

Check if applicable:

- ☐ This facility was not included in the TMDL; however, the addition of this point source is not expected to cause water quality violations because it represents an insignificant load (less than 1%) compared to the TMDL.

- ☐ This facility was included in the Sediment TMDL for

\_\_\_\_\_ (stream name)  
 and was given an allocation based on a TSS concentration of \_\_\_\_\_ mg/L.